



# IBERO SOLVER 2X2X2 LBL

VERSION 1.X.X

USER'S MANUAL

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# 1 Introduction

Ibero Solver 2x2x2 LBL shows the movements necessary to solve a 2x2x2 cube. The user enters the information of the colours of the cube (unsolved), and the program creates a list in a TXT file with the movements to solve it.

The algorithms used in the program are those of the LBL (Layer-By-Layer) method; the upper part is solved first, and then the lower part.

## 2 Downloading and installing

### 2.1 For Windows

The program is written in Fortran; that means before using it a compiler must be installed first. This compiler lets the computer understand the applications written in this programming language. Here the compiler used is gfortran, which is part of the GCC (GNU Compiler Collection), created by the GNU Project.

In the GCC Wiki (<http://gcc.gnu.org/wiki/GFortranBinaries>) there are several versions for Windows; the most user-friendly one is a typical installer:

<http://users.humboldt.edu/finneyb/gfortran-windows-20130301.exe>

After downloading it, run the file. A window like this will be shown:

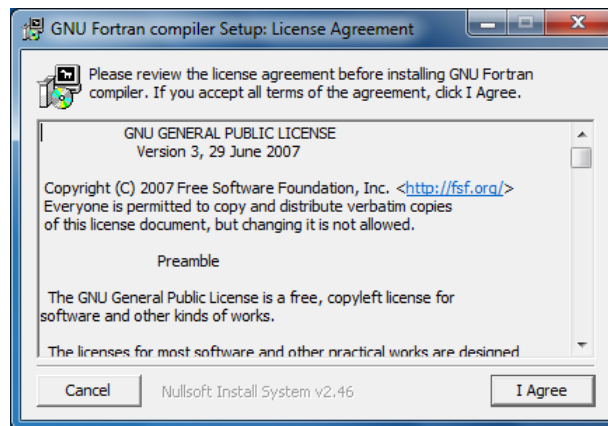


Figure 1: Window of the gfortran installer

Install it.

To install Ibero Solver 2x2x2 LBL, download from [www.iberorubik.com](http://www.iberorubik.com) the compressed file of the console version in English. Once downloaded, unpack it in a folder easy to find (Desktop, for instance), because you will have to open it to write the colours of the faces (Figure 2).

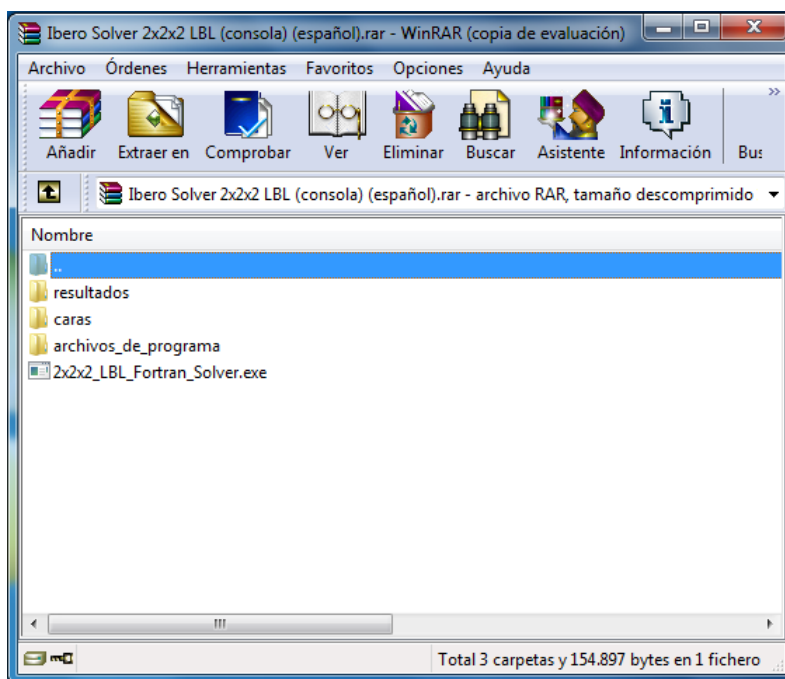


Figure 2: Unzip the files in an accesible directory.

**CAUTION:** The main folder can be renamed, but its content (the three folders and the binary file) must stay in the same folder. If one of these folders or the EXE file is deleted or moved, the program will not work.

## 2.2 For Linux

In Linux, GCC compiler is usually installed. To check it, open the Terminal and write “gfortran” (without quotes). If the console writes back “gfortran: order not found” or something similar, you need to install it. To do that, follow these steps:

1. Write (without quotes) “apt-cache search gfortran” and press ENTER.
2. Among the results, search those with the structure “gfortran-x.x - GNU Fortran compiler”, where “x.x” will be the most recent version (Figure 3).
3. After that, type “sudo apt-get install” plus the most recent version, press ENTER and type your password.
4. When finished, check again if gfortran is installed. If so, close the Terminal.

```
-PORTEGE-M800:~$ apt-cache search gfortran
gfortran - GNU Fortran 95 compiler
gfortran-4.5-doc - Documentation for the GNU Fortran compiler (gfortran)
gfortran-4.6 - GNU Fortran compiler
gfortran-4.6-doc - Documentation for the GNU Fortran compiler (gfortran)
gfortran-4.6-multilib - GNU Fortran compiler (multilib files)
gfortran-multilib - GNU Fortran 95 compiler (multilib files)
lib32gfortran3 - Runtime library for GNU Fortran applications (32bit)
lib32gfortran3-dbg - Runtime library for GNU Fortran applications (32 bit de
bug symbols)
gfortran-4.4-doc - Documentación para el compilador Fortran 95 GNU (gfortran
)
gfortran-doc - Documentación para el compilador Fortran 95 GNU (gfortran)
lib64gfortran3 - Biblioteca runtime para aplicaciones Fortran GNU (64bit)
lib64gfortran3-dbg - Biblioteca ejecutable para aplicaciones Fortran GNU (sí
mbolos de depuración 64bit)
libgfortran3 - Biblioteca de ejecución para aplicaciones GNU Fortran
libgfortran3-dbg - Biblioteca de ejecución para aplicaciones GNU Fortran (sí
mbolos de depuración)
gfortran-4.4 - GNU Fortran 95 compiler
```

Figure 3: Results shown by the Terminal.

## 3 Use

### 3.1 In Windows

1. To use the program in Windows, go to folder “faces”, and write the colours in every TXT file. The name of the faces follows the English notation:
  - U → Up
  - F → Front
  - R → Right
  - B → Back
  - L → Left
  - D → Down

In the files, the colours are written as a matrix.

2. To write what you see in the cube, take it with a face parallel to you, deciding which is the front face, the left face, the down face... Once decided, type the colours as shown in Figure 4:

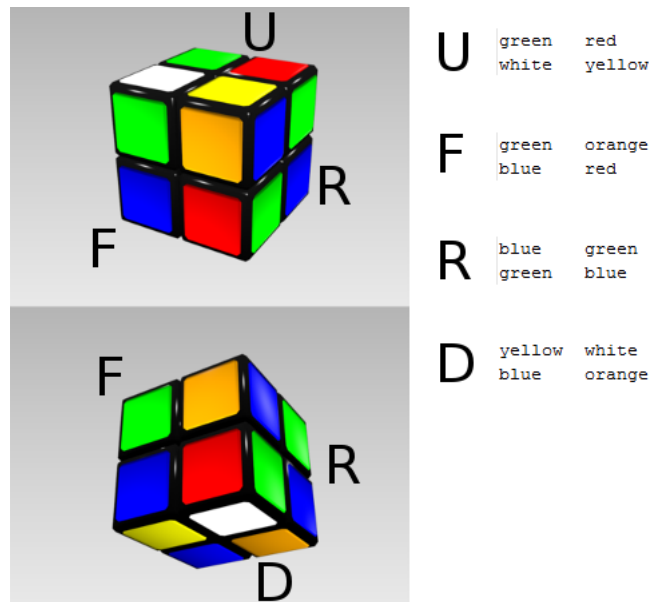


Figure 4: How to write the colours.

3. After that, run the file “Ibero Solver 2x2x2 LBL.exe”, located in the main folder.
4. In a fraction of a second, the program solves the cube, and shows data describing the whole process: situation of the cube after applying each step, time... To exit the program, press any key and ENTER.
5. Go to folder “results”; there you will find four TXT files:
  - movements.txt: It contains all the movements to solve the cube.
  - movements\_step\_0.txt: Contains (if necessary) a single movement to place the most solved face on the top.
  - movements\_step\_1.txt: Contains the movements to solve the upper layer.
  - movements\_step\_2.txt: It includes the 180° of the whole cube to place the unsolved part on the top, and the movements to place the yellow stickers in the U face.
  - movements\_step\_3.txt: These algorithms permutes the pieces of the U face, and solves the cube completely.

If in some step no movements were necessary, the associated file will be empty.

### 3.2 In Linux

1. Same as In Windows
2. Same as In Windows
3. In Linux, the program must be run through the Terminal, but first it must be marked as an executable file. Right-click on “run”, go to “Properties”, and click on “is executable”.  
Then, open the Terminal in the main folder of the program and write (without quotes): “./Ibero\_Solver\_2x2x2\_LBL”
4. Same as In Windows
5. Same as In Windows

## 4 Information shown by the program

- First of all, the program shows the situation of the cube at the end of the different steps:
  - Before resolution (that means, data of the faces files).
  - After the pattern detection: The non-standard colours are rewritten so that the subroutines can work: black → white; purple → orange.
  - After turning the cube and detecting the step: The most solved part of the cube is placed on the top to start with it.
  - After the internal colour change: Since the subroutines are designed to start with white and finish with yellow, and the previous turn can make another colour be placed on the top, the program changes each and every colour internally, to turn the upper colour into white, the lower colour into yellow, etc. From this moment, what the program shows is not the real configuration of the cube, but the colours it uses.
  - After putting the white stickers on the top and before permutation: Every white stickers is up, and half the first step is done.
  - After solving the first step: The upper half of the cube is solved.
  - After solving the second step: The yellow face is now U and it has been completed.
  - After solving the third step: The cube is solved.
- Secondly, the program shows the movements saved by using the subroutine “movement\_reducer”: For example, if the program writes U and U’, these two movements are eliminated, because the final state of the cube is the same (redundant movements are only deleted in “movements.txt”).
- And finally it shows the approximate time the program takes to solve the cube.

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This program is free software, licensed under the GNU General Public License (GPL) so, to sum up, the user can:

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2. Distribute literal copies of the source code as they received it (in their web, by e-mail, pen-drives, CDs...)
3. Charge for this distribution what they want (or not)
4. Modify the program
5. Distribute modified versions by themselves as binary files, although including the source code.

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- Say that the program does not have any warranty
- Give a copy of GPL with the program

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## 6 FAQs

- **Why Fortran, and not another programming language?**

Fortran is still using a lot in engineering. Also, it is a very effective language to handle matrices, and quite fast (runtime of this program is below 50 ms). However, we are using other languages too, such as Visual Basic for GUIs.

- **Why do I need to install a compiler in order to run the program?**

This happens specially in Windows. Although Fortran is very effective in its field, is not massively used, so Windows does not “understand” it by default. So the compiler allows to create the binaries in Windows from the source code, and to run them.

- **I use Linux, and I cannot run the program; Terminal says “Permission denied”.**

Although the binary file has been marked as executable, it may not work. That might happen because of permissions of the hard disk drive where the program is (for example, external drives); by saving the main folder and its content in the internal disk drive, this issue should disappear.

- **What is all this information the program shows?**

All the information given by the program is explained in section 4 of this Manual.

- **I have accidentally deleted one of the folders of the program.**

The program will crash when executed. We recommend you to download again the program from [www.iberorubik.com](http://www.iberorubik.com).

- **I have accidentally deleted a file.**

If it is a file from “results” folder or “program\_files” folder, do not worry; they will be created again when the program is run. If it is from “faces” folder, the program will not work. You can create it manually, call it the same way as the rest of the files of that folder, and write the colours in it.

- **How can I use this program according to its license?**

Since it is free software, you can copy, redistribute, modify and even sell it, but in all these steps the program must continue to be as free software (which means the user who receives it must have the same rights). Read section 5 of this manual or look for more information on the Free Software Foundation website.

## 7 Links

[www.iberorubik.com](http://www.iberorubik.com)

<http://gcc.gnu.org/wiki/GFortranBinaries>

<http://users.humboldt.edu/finneyb/gfortran-windows-20130301.exe>

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